

10/560150

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/04941

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B01D 53/06
 US CL : 96/125, 131, 146, 154

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 96/125, 126, 131, 143, 146, 154

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,693,123 A (KLOBUCAR) 02 December 1997 (02.12.1997), abstract, figures, col. 2, lines 30-48, claim 1	1-18
Y	US 5,308,457 A (DALLA BETTA et al) 03 May 1994 (03.05.1994), figures, col. 4, line 58 to col. 5, line 2	1-18
Y	US 4,331,631 A (CHAPMAN et al) 25 May 1982 (25.05.1982), col. 6, lines 3-14	3-6 and 11-13
Y	US 5,854,171 A (NICOLAU et al) 29 December 1998 (29.12.1998), col. 4, lines 15-27	8, 18
A	US 5,891,219 A (KLOBUCAR et al) 06 April 1999 (06.04.1999)	1-18

Further documents are listed in the continuation of Box C.

See patent family annex.

Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

03 July 2003 (03.07.2003)

Date of mailing of the international search report

22 JUL 2003

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 Facsimile No. (703)305-3230

Authorized officer

Frank M. Lawrence

Telephone No. 703-308-0654

INTERNATIONAL SEARCH REPORT

PCT/US03/04941

Continuation of B. FIELDS SEARCHED Item 3:

DERWENT

search terms: honeycomb rotary adsorbent